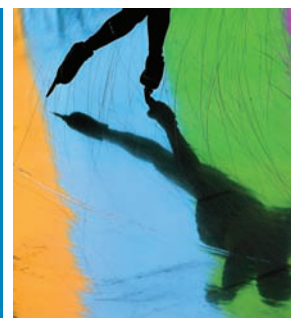


THOMSON REUTERS INTEGRITY

QUICK GUIDE SERIES: No. 15



HOW TO VALIDATE TARGETS IN YOUR RESEARCH ACTIVITIES WITH THOMSON REUTERS INTEGRITY

Need to have a detailed picture of the target landscape for various therapeutic areas?

Find out in this quick guide how the improved Targets & Pathways Knowledge Area of *Thomson Reuters Integrity*SM provides detailed information about precedented targets.

Benefit from a clearer representation and easy navigation to find target records within *Integrity* and see the association between targets and conditions.

Within the Targets & Pathways Knowledge Area of *Thomson Reuters Integrity*, you can also find the development status of the compounds in development with claims to act on a specific target.

This step-by-step guide will show you how to:

- Find a specific target
- See the association between targets and conditions
- See the development status of the compounds in development with claims to act on a specific target.
- Easily export the records retrieved into an *Integrity* Report

EXAMPLE SCENARIO: HOW TO VALIDATE TARGETS IN YOUR RESEARCH ACTIVITIES WITH THOMSON REUTERS INTEGRITY

A biochemist wants to investigate competitor information about a target reported to have discovery phase compounds with a novel class of inhibitors that have been claimed for therapeutic intervention in cancer.

1. FIND A SPECIFIC TARGET WITHIN INTEGRITY

- The **Targets & Pathways Knowledge Area** provides *Integrity* users with detailed information about precedented targets (targets that have at least one compound reported to act against them). The easy-to-navigate records give *Integrity* users the power to see the target conditions and the status of the condition based on the phase of the compounds that are being developed for that indication.
- To search for targets start in the **Advanced Search** form of the **Targets & Pathways Knowledge Area** and select the **Target Name** field. Use the index to find the terms you are looking for. (FIGURE 1)

Tip:

- Type all or part of the name into the lookup box in the index to find the *Integrity* controlled vocabulary terms for your search.
- Having selected the relevant targets you can now start your search. If more than one result is retrieved a list of summarized target records is displayed. (FIGURE 2)
- To see the full target records open the **Options** pulldown menu and then select **Full Records**.
- You can now examine the records which contain information including the related names, Description/Function, hyperlinks to third-party resources like UniProt and PDB, and in some cases a Targetscape or scientific animation is also included. (FIGURES 3, 4 and 5)

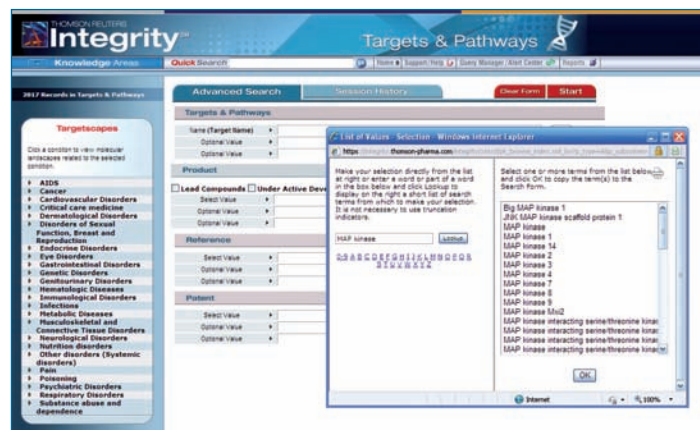


FIGURE 1

Target Name	Type	Related Conditions & Status	Links
Chitinase (EC:3.2.1.11)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 1)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 2)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 3)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 4)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 5)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 6)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 7)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 8)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 9)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 10)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 11)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 12)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 13)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 14)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 15)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 16)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 17)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 18)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 19)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 20)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 21)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 22)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 23)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 24)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 25)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 26)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 27)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 28)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 29)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 30)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 31)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 32)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 33)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 34)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 35)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 36)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 37)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 38)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 39)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 40)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 41)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 42)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 43)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 44)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 45)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 46)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 47)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 48)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 49)	Enzyme	High Condition	V C E E SAP kinase (2005)
Chitinase (EC:3.2.1.11) (Chitinase 50)	Enzyme	High Condition	V C E E SAP kinase (2005)

FIGURE 2



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- You can also find in the target record the **Condition (Status)** field. This field contains information about the conditions and the status of the compounds in development with claims to act on that target. For each condition the status can be:
 - Exploratory Conditions:** a target associated with one or more products undergoing Biological Testing for the condition in question
 - Candidate Conditions:** a target associated with products previously reported to be under active development in preclinical or clinical phases but where the products are no longer under active development for the condition in question.
 - Validated Conditions:** a target associated with the mechanism of action of one or more products that is under active development in preclinical or clinical phases or is registered or launched for the condition in question.

FIGURE 3

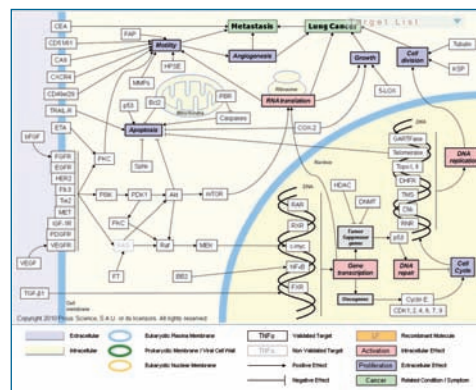


FIGURE 4

- Tip:**
- Hover the mouse over the V,C,E icons to see the definition of each status.
 - Click **Expand All** to see the all conditions and the status. (FIGURE 6)
 - You can then click straight through to the related compounds for that particular condition by clicking **View Drugs**, for example next to Cancer. You are taken to the **Drugs & Biologics Knowledge Area**, where you can view the list of related products. To see the **Structures**, open the **Options** menu and then select **Product List with Structures**. (FIGURE 7)

2. EXPORTING YOUR RESULTS

- You may now wish to export your results. There are two possibilities and both can be found in the **Options** menu. The **Export Center** allows you to export your results to Excel, Word, BizInt, and SDF file format. Also available is **Integrity Reports** which allow you to export your results as well as the related information from other **Knowledge Areas**. (FIGURE 8)

FIGURE 7

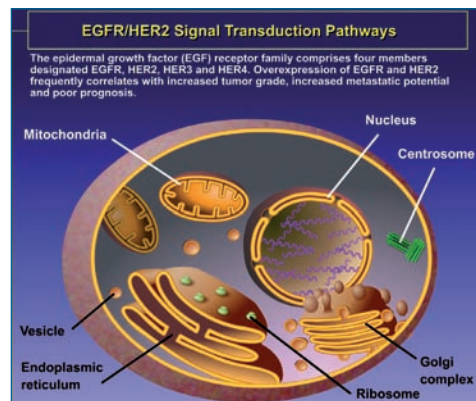


FIGURE 5

FIGURE 8

FIGURE 6

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 If you have any questions about using *Integrity*, please contact us at: integritysupport@thomsonreuters.com