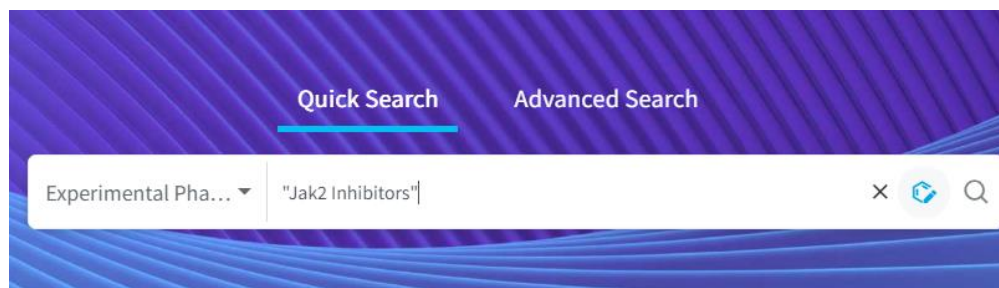


Cortellis Drug Discovery Intelligence

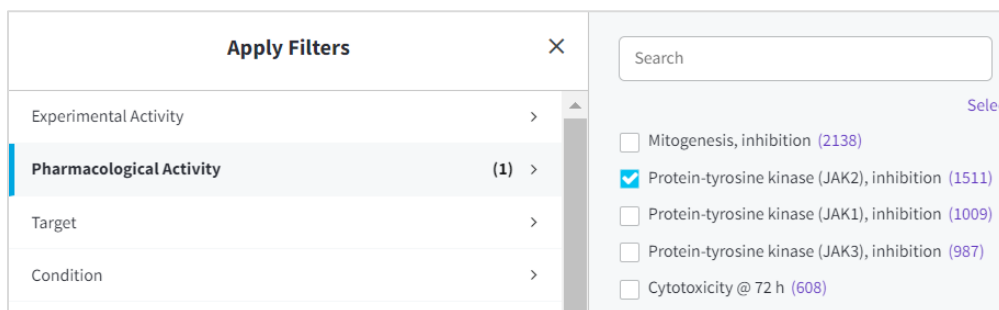
Experimental pharmacology analytics

Easily benchmark your drugs of interest using the analytical tools in the Experimental Pharmacology Knowledge Area.

1. Run a quick search in **Experimental Pharmacology**, for example to find experimental data on Jak2 inhibitors.



2. In the results page, use **Apply Filters** to select the **Pharmacological Activity** you'd like to benchmark, for instance Jak2 inhibition.



3. **Parameters** and **Values** in the results page may appear in different form (**Log/Non-log**) and units (**Grams/Molar**) depending on the source of the data. Use the **Unify - Convert** functionality to solve that.

Experimental Pharmacology Mean / Median

▼ Apply Filters Unify - Convert ⚙ Sorted by relevance Showing 1-20 of 1511 Experimental Pharmacology records for "Jak2 Inhibitors"

Pharmacological Activity

Unify Parameter

Log → Non-log Non-log → Log

Convert Units

Molar → Grams Grams → Molar

↻ Clear all changes

Drug Name	Pharmacological Activity	Material/Experimental Model	Method	Parameter	Value	Source
<input type="checkbox"/> 815011	Protein-tyrosine kinase (JAK2), inhibition		ATP assay	IC-50	39 ± 13 nM	Literature
<input type="checkbox"/> 1091931	Protein-tyrosine kinase (JAK2), inhibition	Recombinant human enzyme	Fluorescence resonance energy transfer (FRET) assay	IC-50	824 nM	Patent
<input type="checkbox"/> 1042217	Protein-tyrosine kinase (JAK2), inhibition	TF1 human erythroleukemia cells	Chemiluminescent assay	IC-50	2.3 µM	Literature
<input type="checkbox"/> 1015417	Tyrosine-Protein Kinase JAK2 (JAK-2) inhibition, IN VITRO	Human enzyme	ATP assay	IC-50	7.2 nM	Literature

4. Once your results are unified and converted, you may see many experiments measuring the same drug for the same activity with the same parameter. Use the **Mean / Median** tab on the top of the page to calculate the mean and median values for those similar experiments.

Mean / Median

* Select at least one of the sources of records you would like included.

☒ Literature ☒ Patents

⚙ Would you want to consider only the same Material in the calculation?

☐ Yes ☒ No

⚙ Would you want to consider only the same Method in the calculation?

☐ Yes ☒ No

* Select at least one parameter:

Select all / Clear all

☒ IC-50 (M) ☐ IC-90 (M) ☐ Kd (M)

☐ Ki (M)

Reset Calculate

Specify what terms to consider for your calculation under the Mean/Median tab. Then hit **Calculate**.

5. You can now easily benchmark drugs with the most interesting pharmacological values in the Mean/Median results page.

Experimental Pharmacology

Mean / Median

Showing 1-20 of 640 Mean/Median calculations

Drug Name	Pharmacological Activity	Parameter	Mean	Median
1009088	Protein-tyrosine kinase (JAK2), inhibition	IC-50	6.2 nM [6.2 - 6.2] (n=3)	6.2 nM [6.2 - 6.2] (n=3)
1009089	Protein-tyrosine kinase (JAK2), inhibition	IC-50	1 pM [1 - 1] (n=3)	1 pM [1 - 1] (n=3)
1009090	Protein-tyrosine kinase (JAK2), inhibition	IC-50	2.1 nM [2.1 - 2.1] (n=3)	2.1 nM [2.1 - 2.1] (n=3)
1009091	Protein-tyrosine kinase (JAK2), inhibition	IC-50	1.4 nM [1.4 - 1.4] (n=3)	1.4 nM [1.4 - 1.4] (n=3)
1009092	Protein-tyrosine kinase (JAK2), inhibition	IC-50	5.53 nM [5.4 - 5.6] (n=3)	5.6 nM [5.4 - 5.6] (n=3)

(n=x) reflects the number of data points used to calculate the mean/median

For more information contact Customer Service at [LS Product Support](#)