

Last Edited: Rafael Alcántara (February 2012)

Rhea Exercises

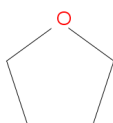
You will need access to Rhea online at <http://www.ebi.ac.uk/rhea> to complete these exercises.

1. Search for Rhea reaction with identifier RHEA:20736. What is the EC number associated with this reaction? Can you provide the identifier for the **bidirectional** reaction related to this reaction? (Tip use the related reactions attribute)

2. Using the entry of RHEA:20736 can you find how many reactions contain glycine as reaction participant? (Tip use the binoculars provided on the entry page)

3. Use the Advanced Search to find all composite reactions in Rhea. How many can you find?

4. Draw the following chemical structure in the Advanced Search page.



Search for all substructures of this structure in Rhea. How many results do you find? Click on the first result back to Rhea and name one of the reactions involved.

5. Use the advanced search to find any citations with the surname 'Smith'? How many Rhea reactions do you find? (Tip: narrow your search using the 'In field' category)

6. Search for transport reactions driven by ATP hydrolysis. How many of them can you find? Tip: use again the advanced search to find reactions involving ATP and ADP as participants, being transport reactions.
