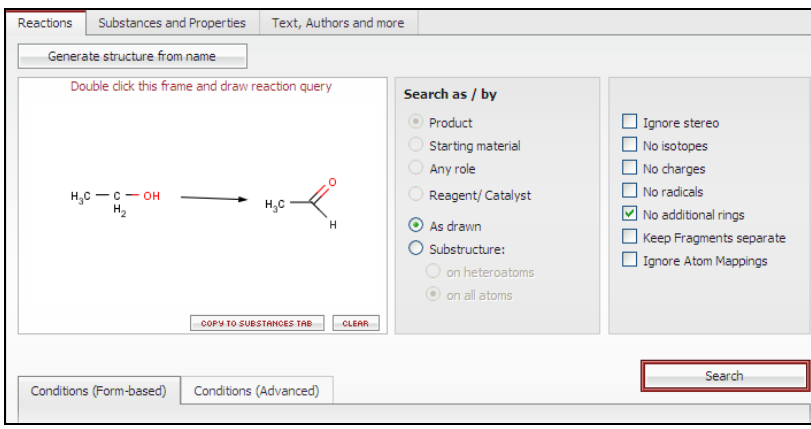
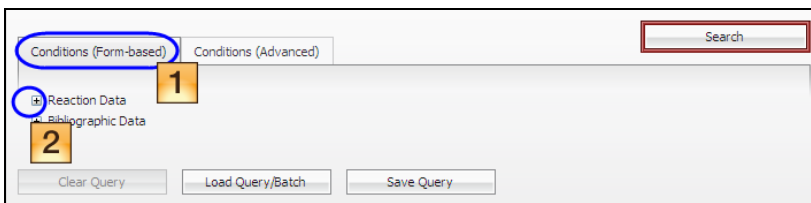
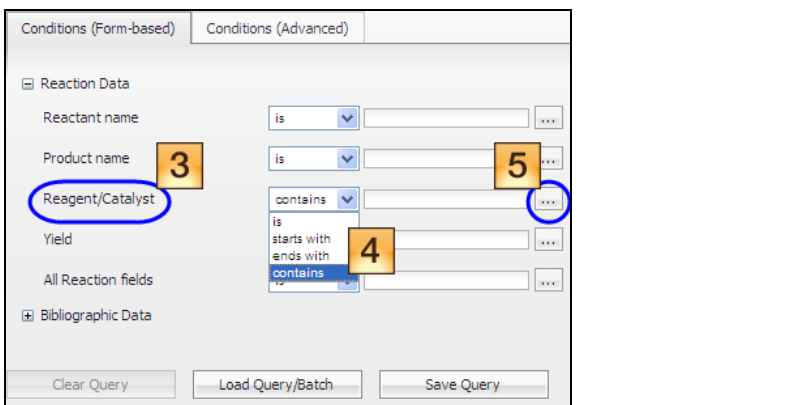


酵素名を指定した反応検索の方法

Question : ある化合物を生成する反応のうち、特定の酵素が関与するもののみを検索できますか？

Answer : Advanced Search で反応に関与する酵素名を指定して検索できます。

検索例：デヒドロゲナーゼ酵素反応をするものに絞って検索する

<p>Step 0</p> <p>反応検索画面において、反応式を描く。</p>	
<p>Step 1 - 2</p> <p>「Conditions (Form-based)」タブを選択し、「Reaction Data」の「+」記号をクリックする。</p>	
<p>Step 3 - 5</p> <p>「Reagent/Catalyst」の行で「contains」を選択し、「…」ボタンをクリックする。</p>	

Step 6 - 8

「Search for:」欄に酵素の名称を入力し、表示された候補リストから検索したいものを選択して、「Transfer」ボタンをクリックする。
(※Shift キーを押しながらクリックすると複数選択も可能)

Select index items and click "Transfer"

Search for: dehydrogenase

- dehydrogenase (1)
- dehydrogenase enzyme lb-hicdh (60)
- dehydrogenase from leaves of oryza sativa (1)
- dehydrogenases (1)
- dehydrogenating catalyst (1)
- dehydrogenation catalyst (4)
- dehydroindigo (1)
- dehydrol 04 .(tm). (1)
- dehydrol ls 7.(tm). (1)
- dehydrol lt 7.(tm). (1)
- dehydropeptidase i (1)
- dehydroquinase synthase (2)
- dehydroquinidine p-chlorobenzoate (67)
- dehydroxylated alumina (7)
- deinococcus geothermalis dsm 11300 amylosucrase amylosucrase
- dekatingstate (4-) (2)
- dekera sp. cultured cells (1)
- dekkera bruxellensis cbs2796 (1)
- delaminated zeolite itq-2 (3)
- delaminated zeolite itq-2-b (4)

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Step 9

「Search」ボタンをクリックして検索を行う。

Reactions Substances and Properties Text, Authors and more

Generate structure from name

Double click this frame and draw reaction query

Search as / by

- Product
- Starting material
- Any role
- Reagent/ Catalyst
- As drawn
- Substructure:
 - on heteroatoms
 - on all atoms

Ignore stereo
No isotopes
No charges
No radicals
No additional rings
Keep Fragments separate
Ignore Atom Mappings

Conditions (Form-based) Conditions (Advanced)

Reaction Data

Reactant name is

Product name is

Reagent/Catalyst contains dehydrogenase; dehydro

Yield =

All Reaction fields is

Search

検索結果が表示される。

2 reactions out of 237 citations

Reactions Citations

Limit to Selection Output Quick Print Sort by Reaxys-Ranking

Yield Conditions References

H₃C-CH₂-OH → H₃C-C(=O)-H

Synthesize Synthesize Rx-ID: 194012

Hit Details (6)

With beta-keto-glutaric acid; glutenic dehydrogenase; TES buffer; NAD ⁺ T=25°C; other alcohols; var. coenzymes; Product distribution;	Kazlauskas, Romas J. Journal of Organic Chemistry, Title/Abstract Full Text Vi
With Tris-HCl buffer; nicotinamide adenine dinucleotide; D-glucosaminitol dehydrogenase in water T=25°C; pH=9.0; 0.0833333 h; Enzymatic reaction; Oxidation; Enzyme kinetics;	Iwamoto, Ryoko; Sakamoto Tanaka, Mieko Bioscience, Biotechnology, and B 791 Title/Abstract Full Text Vi
With equine liver alcohol dehydrogenase; Tris-HCl buffer; NAD ⁺	Fontaine, Frank R.; Dunlop,