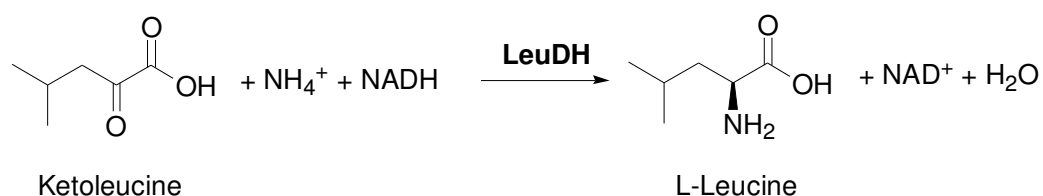


## evo-1.1.110

Description: Leucine Dehydrogenase 110, L-selective, NAD-dependent, bacterial

Catalyzed reaction:

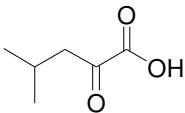
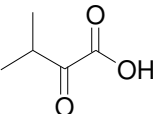
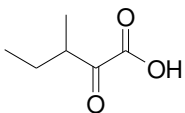


Source: *E. coli*, recombinant

Storage: -20°C with 50 % glycerin

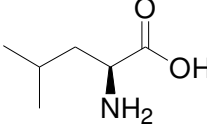
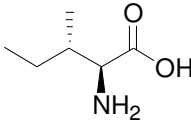
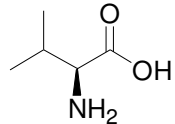
Substrate spectrum  $\alpha$ -keto acids or rather amino acids with branched moieties; examples see below; for further substrates please inquire

Reductive amination (wild type-enzyme):

Substrate	Structure	Activity [U/mg]	% ee
2-Ketoisocaproate		210	> 99 (L)
2-Ketoisovalerate		320	> 99 (L)
2-Keto-3-methylvalerate		220	> 99 (L)

Continuation substrate spectrum: **evo-1.1.110** Leucine Dehydrogenase  
110

Oxidative deamination (wild type-enzyme):

Substrate	Structure	Activity [U/mg]
L-Leucine		57
L-Isoleucine		35
L-Valine		35

Properties: pH<sub>opt</sub>: reduction: 8.5 – 9.5; oxidation: 11.5, T<sub>opt</sub>: 60°C