

Ldha, 1-332aa, Rat, His tag, Baculovirus

Cat.NO.: TP02794

3th Edition

Synonyms:L-lactate dehydrogenase A chain, Ldha, Ldh1

Description:Ldha, also known as lactate dehydrogenase A, catalyzes the conversion of pyruvate to lactate, utilizing NADH as a cofactor. It has been identified as a potential therapeutic target in the area of cancer metabolism. Reduction in Ldha activity resulted in stimulation of mitochondrial respiration and decrease of mitochondrial membrane potential. Recombinant rat Ldha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 1mM DTT, 20% glycerol.

Molecular Weight:37.5kDa (340aa); 28-40kDa (SDS-PAGE under reducing conditions)

Sequences:

MAALKDQLIVNLLKEEQVPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKCLKGEMMDLQHGSFLKTPKIV
SSKDYSVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPQCKLLIVSNPVDILTYVAWKISGFPKNR
VIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGVNVAGVSLKSLNPQLGTDADKEQWKDV
HKQVVDSAYEVIKLGYSWAIGLSVADLAESIMKNLRRVHPISTMIKGLYGIKEDVFLSVPCILGQNGISDVVKVTLT
PDEEARLKKSADTLWGIQKELQFLEHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.