

Alpha-Enolase, Human Recombinant

CATALOG NO:	6363-100	100 µg
	6363-500	500 µg
ALTERNATE NAMES:	Non-Neuronal Enolase (NNE), Enolase-1 (ENO1), MBP-1, MYC promoter-binding protein 1, PPH, taucristallin	
SOURCE:	<i>E.coli</i>	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	47.1 kDa (1-434 aa)	
FORM:	Liquid	
FORMULATION:	In 50 mM Tris, 150 mM NaCl, 20 mM MgCl ₂ and 20% Glycerol	
STORAGE CONDITIONS:	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.	
DESCRIPTION:	Alpha-enolase, also known as Enolase 1, is one of three enolase isoenzymes - a glycolytic enzyme expressed in most tissues. This protein plays a key role in anaerobic metabolism under hypoxic conditions and may act as a cell surface plasminogen receptor during tissue invasion. Abnormal expression of alpha-enolase is associated with tumor progression in some cases of breast and lung cancer. It also has been identified as an auto antigen associated with Hashimoto's encephalopathy and severe asthma.	
SPECIFIC ACTIVITY:	Specific activity is ≥ 80 U/mg is determined by using BioVision's Enolase Activity Colorimetric/Fluorometric Assay Kit (Cat. No. K691).	
UNIT DEFINATION:	One unit is the amount of enzyme that will generate 1.0 nmole of H ₂ O ₂ per minute at pH 7.2 and 25 °C.	

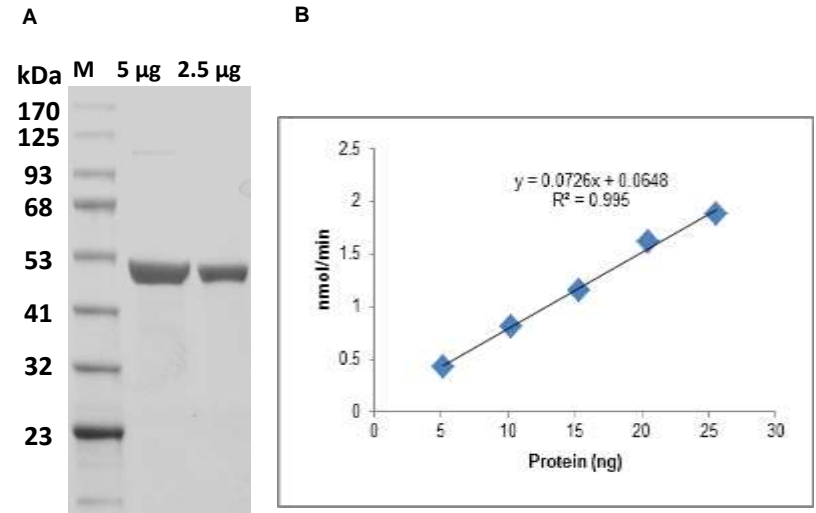


Fig A. SDS-PAGE (4-20%) recombinant Alpha-Enolase: Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker, Lanes 2-3 Alpha-Enolase

Fig B. Enzyme activity assay: The activity of the enzyme is 80 units/mg as assayed with BioVision's Enolase Activity Colorimetric/Fluorometric Assay Kit (Cat. No. K691),

RELATED PRODUCTS:

- Enolase Activity Colorimetric/Fluorometric Assay Kit (**Cat. No. K691**)
- Human Enolase α Inhibitor Screening Kit (Colorimetric) (**Cat. No. K526**)
- Human Recombinant Neuron-Specific Enolase (NSE) (**Cat. No. 6362**)
- Human Recombinant Beta-Enolase (**Cat. No. 6364**)

FOR RESEARCH USE ONLY! Not to be used on humans.