Datasheet for ABIN2745733

AADAT Protein (His tag)

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Overview

Quantity:	50 µg
Target:	AADAT
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AADAT protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Cross-Reactivity:	Human
Characteristics:	Human full-length KAT II is fused at the N-terminus to a His-tag.
Purity:	>97 % (SDS-PAGE)

Target Details

Target:	AADAT
Alternative Name:	Kynurenine Aminotransferase II (AADAT Products)
Background:	Kynurenine aminotransferases (KATs) are pyridoxal-5'-phosphate-dependent enzymes that catalyze the conversion of L-kynurenine into kynurenic acid, a neuroactive metabolite whose unbalancing is associated with a number of brain disorders. Biochemical and structural investigations revealed that L-kynurenine (L-KYN) recognition by hKAT II is achieved by exploiting structural features that are peculiar of this isoform, thus offering the possibility to

Target Details

	select/design inhibitor molecules specifically targeting hKAT II to be used as modulators of kynurenic acid synthesis in the CNS. hKAT II is one of the aminotransferases involved in the pyridoxal 5'-phosphate (PLP)-dependent irreversible transamination of L-kynurenine (L-KYN) to kynurenic acid (KYNA) in the central nervous system. When assayed in vitro the protein also displays beta-elimination activity.
Molecular Weight:	~49.8kDa
NCBI Accession:	NP_872603

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	In 50 mM phosphate buffer pH 8.0, containing 50 mM sodium chloride and 40µM pyridoxal 5'-phosphate (PLP).
Storage:	-20 °C,-80 °C
Storage Comment:	Short Term Storage: -20°C Long Term Storage: -80°C Stable for at least 6 months after receipt when stored at -80°C.
Expiry Date:	6 months