Datasheet for ABIN7552355

AKR7A2 Protein (AA 1-359) (His tag)

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Overview

Quantity:	1 mg
Target:	AKR7A2
Protein Characteristics:	AA 1-359
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKR7A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AKR7A2 Protein expressed in mammalien cells.
Sequence:	MLSAASRVVS RAAVHCALRS PPPEARALAM SRPPPPRVAS VLGTMEMGRR MDAPASAAAV RAFLERGHTE LDTAFMYSDG QSETILGGLG LGLGGGDCRV KIATKANPWD GKSLKPDSVR SQLETSLKRL QCPQVDLFYL HAPDHGTPVE ETLHACQRLH QEGKFVELGL SNYASWEVAE ICTLCKSNGW ILPTVYQGMY NATTRQVETE LFPCLRHFGL RFYAYNPLAG GLLTGKYKYE DKDGKQPVGR FFGNSWAETY RNRFWKEHHF EAIALVEKAL QAAYGASAPS VTSAALRWMY HHSQLQGAHG DAVILGMSSL EQLEQNLAAT EEGPLEPAVV DAFNQAWHLV AHECPNYFR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	AKR7A2
Alternative Name:	AKR7A2 (AKR7A2 Products)
Background:	Aflatoxin B1 aldehyde reductase member 2 (EC 1.1.1.n11) (AFB1 aldehyde reductase 1) (AFB1-AR 1) (Aldoketoreductase 7) (Succinic semialdehyde reductase) (SSA reductase),FUNCTION: Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2-aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10-phenanthrenequinone (in vitro). Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen. {ECO:0000269|PubMed:17591773, ECO:0000269|PubMed:9576847}.
Molecular Weight:	39.6 kDa
UniProt:	O43488

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

