

Product datasheet for AR09375PU-N

OriGene Technologies, Inc.

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AKR7A3 / AFAR2 (1-331, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: AKR7A3 / AFAR2 (1-331, His-tag) human recombinant protein, 50 μg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM SRQLSRARPA TVLGAMEMGR RMDAPTSAAV TRAFLERGHT EIDTAFVYSE GQSETILGGL GLRLGGSDCR VKIDTKAIPL FGNSLKPDSL

RFQLETSLKR LQCPRVDLFY LHMPDHSTPV EETLRACHQL HQEGKFVELG LSNYAAWEVA EICTLCKSNG WILPTVYQGM YNAITRQVET ELFPCLRHFG LRFYAFNPLA GGLLTGKYKY EDKDGKQPVG RFFGNTWAEM YRNRYWKEHH FEGIALVEKA LQAAYGASAP SMTSATLRWM YHHSQLQGAH GDAVILGMSS LEQLEQNLAA AEEGPLEPAV VDAFNQAWHL VAHECPNYFR

Tag: His-tag
Predicted MW: 41.6 kDa
Concentration: lot specific

Purity: >95% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Biological: Specific activity approximately < 0.1 units/mg protein.

Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the

oxidation of 1 micromole NADPH per minute at 25°C.

Activity Assay

- 1. Prepare a 1.0 ml reaction mix into a suitable container: The final concentrations are 0.1M sodium phosphate (pH 7.0), 10mM DL-glyceraldehyde, 0.3mM NADPH.
- 2. Add 50 ul of recombinant AKR7A3 solution with various concentrations (2.5ug, 5ug, 10ug) in 750 ul reaction buffer.
- 3. Mix by inversion and incubate at 25°C for 2.5 minutes.
- 4. Add 200 ul of 50 mM DL-glyceraldehyde as a substrate and immediately mix by inversion.
- 5. Record the increase in A340nm for 3 minutes.





Preparation: Liquid purified protein

Protein Description: Recombinant human AKR7A3, fused to His-tag at N-terminus, was expressed in E.coli and

purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 036199

Locus ID: 22977

UniProt ID: <u>095154</u>, <u>A0A384MDN8</u>

Cytogenetics: 1p36.13 Synonyms: AFAR2

Summary: Aldo-keto reductases, such as AKR7A3, are involved in the detoxification of aldehydes and

ketones.[supplied by OMIM, Apr 2004]

Protein Families: Druggable Genome

Product images:

