

Product datasheet

Recombinant human AMF protein (Bioactivity Validated) ab208311

2 References 1 Image

Description

Product name	Recombinant human AMF protein (Bioactivity Validated)
Biological activity	Specific activity is > 400 units/mg obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will convert 1.0 umole of D-Fructose 6-phosphate to D-glucose 6-phosphate per minute at pH 7.4 at 37C.
Purity	> 95 % SDS-PAGE. ab208311 was purified by using conventional chromatography techniques.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>P06744</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMAALTRDPQFQKLQQWYR EHRSELNLRRLF DANKDRFNHFSLTLNTNHGHILVDYSKNLVTEDVMRMLVD LAKSRGVEAA RERMFNGEKINYTEGRAVLHVALRNRNNTPIVDGKDVMP EVNKVLDKMK SFCQQRVRS GDWKG YTGKTITDVINIGIGGSDLGPLMVTEAL KPYSSGGPR VWYVSNIDGTHIAKTLAQLNPES SLFIASKTFTTQETITNAE TAKEWFL QAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDW VGGRYSLWSAI GLSIALHVGF DNFEQLLSGAHWMDQHFR TTPLEKNAPVLL ALLGWYINC FGCETHAMLPYDQYLHRFAAYFQQGD MESNGKYITKSGTR VDHQ TGPIWW GEPGTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLH HKILLANFL AQTEALMRGKSTEEARKELQAAGKSPEDLERLLPHKVFE

GNRPNSIVFT
 KLTPFMLGALVAMYEHKIFVQGIWDINSFDQWGVELGKQL
 AKKIEPELD GSAQVTSHDASTNGLINFIKQQREARVQ

Predicted molecular weight	62 kDa including tags
Amino acids	1 to 558
Tags	His tag N-Terminus
Additional sequence information	NP_000166
Description	Recombinant human AMF protein

Specifications

Our **Abpromise guarantee** covers the use of **ab208311** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE Functional Studies
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	This product was previously labelled as Glucose 6 phosphate isomerase

Preparation and Storage

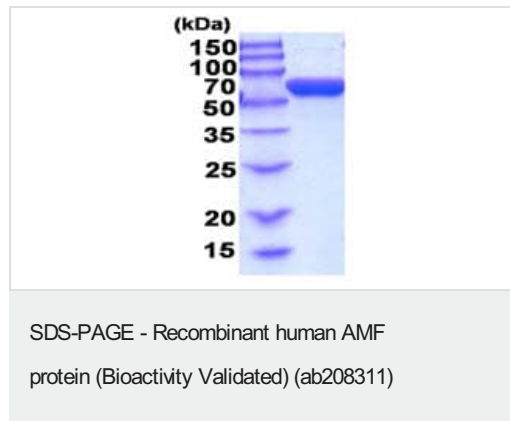
Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Besides it's role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons.
Pathway	Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glyceraldehyde phosphate from D-glucose: step 2/4.
Involvement in disease	Defects in GPI are the cause of hemolytic anemia non-spherocytic due to glucose phosphate isomerase deficiency (HA-GPID) [MIM:613470]. It is a form of anemia in which there is no abnormal hemoglobin or spherocytosis. It is caused by glucose phosphate isomerase deficiency. Severe GPI deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment.
Sequence similarities	Belongs to the GPI family.
Post-translational	Phosphorylation at Ser-185 by CK2 has been shown to decrease enzymatic activity and may

modifications	contribute to secretion by a non-classical secretory pathway. ISGylated.
Cellular localization	Cytoplasm. Secreted.

Images



15% SDS-PAGE analysis of 3 µg ab208311.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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