

Product Data Sheet

Product Name: FOLH1 Human
 Cat. No.: GP26151
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks

Synonyms: Glutamate carboxypeptidase 2 isoform 1, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpolygamma-glutamate carboxypeptidase, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, Nacetylated-alpha-linked acidic dipeptidase I, Prostate-specific membrane antigen, Pteroylpoly-gamma glutamate carboxypeptidase, Folh1, FGCP, FOLH, GCP2, GCPII, mGCP, NAALAD1, NAALAdase, PSM, PSMA

Amino Acid Sequence: ADPMKSSNEA TNITPKHNMK AFLDELKAEN IKKFLYNFTQ IPHLAGTEQN FQLAKQIQSQ WKEFGLDSVE LAHYDVLLSY PNKTHPNYIS IINEDGNEIF NTSLEFPPPP GYENVSDIVP PFSAFSPQGM PEGDLVYVNY ARTEDFFKLE RDMKINCSGK IVIARYGKVF RGNKVKNAQL AGAKGVILYS DPADYFAPGV KSYPDGWNLP GGGVQQRGNIL NLNGAGDPLT PGYPANEYAY RRGIAEAVGL PSIPVHPIGY YDAQKLEKM GGSAPPDSSW RGSLKVPYNV GPGFTGNFST QKVKMHIHST NEVTRIYNVI GTLRGAVEPD RYVILGGHRD SWVFGGIDPQ SGAAVVHEIV RSFGTLKKEG WRPRRTILFA SWDAEEFGLL GSTEWAEENS RLLQERGVAY INADSSIEGN YTLRVDCTPL MYSLVHNLTK ELKSPDEGFE GKSLYESWTK KSPSPEFSGM PRISKLGSNG DFEVFFQRLG IASGRARYTK NWETNKFSGY PLYHSVYETY ELVEKFYDPM FKYHLTVAQV RGGMVFEAN SIVLPFDCRD YAVVLRKYAD KIYSISMKHP QEMKTYSVSF DSLFSAVKNF TEIASKFSER LQDFDKSNPI VLRMMNDQLM FLERAFIDPL GLPDRPFYRH VIYAPSSHNK YAGESFPGIY DALFDIESKV DPSKAWGEVK RQIYVAAFTV QAAAETLSEV AHHHHHH

Formulation: FOLH1 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH 7.4) and 20% glycerol.

Introduction

Caution: Product has not been fully validated for medical applications. For research use only.

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FOLH1, also known as glutamate carboxypeptidase 2 (GCPII), is a single pass type 2 membrane protein which belongs to the peptidase M28 family. FOLH1 is highly produced in prostate epithelium. FOLH1 is also found in ovary, liver, stomach, small intestine colon, urinary bladder, kidney, testis, and the capillary endothelium of a variety of tumours. Therefore, it plays a role in directed imaging and therapy of recurrent of metastatic disease. FOLH1 is a zinc metalloenzyme that resides in membranes and catalyses the hydrolysis of N-acetylaspartylglutamate to glutamate and N-acetylaspartate.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

FOLH1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 717 amino acids (44-750 a.a) and having a molecular mass of 80.7kDa. FOLH1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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