FTCD Protein, Human (sf9, His)

Cat. No.:	HY-P76352
Synonyms:	Formimidoyltransferase-cyclodeaminase; FTCD; LCHC1; Glutamate formyltransferase
Species:	Human
Source:	Sf9 insect cells
Accession:	O95954 (M1-E541)
Gene ID:	10841
Molecular Weight:	Approximately 60.4 kDa.

PROPERTIES

AA Sequence

MSQLVECVPN FSEGKNQEVI DAISGAITQT PGCVLLDVDA
GPSTNRTVYT FVGPPECVVE GALNAARVAS RLIDMSRHQG
EHPRMGALDV CPFIPVRGVS VDECVLCAQA FGQRLAEELD
VPVYLYGEAA RMDSRRTLPA IRAGEYEALP KKLQQADWAP
DFGPSSFVPS WGATATGARK FLIAFNINLL GTKEQAHRIA
LNLREQGRGK DQPGRLKKVQ GIGWYLDEKN LAQVSTNLLD
FEVTALHTVY EETCREAQEL SLPVVGSQLV GLVPLKALLD
AAAFYCEKEN LFILEEEEQRI RLVVSRLGLD SLCPFSPKER
IIEYLVPERG PERGLGSKSL RAFVGEVGAR SAAPGGGSVA
AAAAAMGAAL GSMVGLMTYG RRQFQSLDTT MRRLIPPFRE
ASAKLTTLVD ADAEAFTAYL EAMRLPKNTP EEKDRRTAAL
QEGLRRAVSV PLTLAETVAS LWPALQELAR CGNLACRSDL
QVAAKALEMG VFGAYFNVLI NLRDITDEAF KDQIHHRVSS
LLQEAKTQAA LVLDCLETRQ E

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of 16 mM Hepes, 250 mM NaCl, 20 % glycerol, pH 7.6.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The FTCD (Formimidoyltransferase-Cyclodeaminase) protein is a folate-dependent enzyme known for its versatile functionality, featuring both transferase and deaminase activities. Its primary role involves directing one-carbon units from formiminoglutamate to the folate pool, contributing to essential cellular processes. Moreover, FTCD exhibits an additional function by binding to and facilitating the bundling of vimentin filaments that originate from the Golgi apparatus. This dual role in one-carbon metabolism and cytoskeletal organization highlights the significance of FTCD in cellular homeostasis.

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