

HUNK1, MCAP
Catalog # PVGS1321**Specification****HUNK1, MCAP - Product Information**

Primary Accession

[NM_058243](#)**Species**

Human

Sequence

MHHHHHHETS NPNKPKRQTN QLQYLLRVVL KTLWKHQFAW PFQQPVDAVK LNLPDYYKII KTPMDMGTIK
KRENNYYWN AQECIQDFNT MFTNCYIYNK PGDDIVLMAE ALEKLFLQKI NELPTEETEI MIVQAKGRGR
GRKETGTAKP GVSTVPNTTQ ASTPPQTQTP QPNPPPQAT PHPFPAVTPD LIVQTPVMTV VPPQPLQTPP
PVPPQPQPPP APAPQPVQSH PPIAATPQP VKTKKGVKRK ADTTTPTTID PIHEPPSLPP EPKTTKLQQR
RESSRPVKPP KKDVPDSQQH PAPEKSSKVS EQLKCCSGIL KEMFAKKHAA YAWPFYKPDV VEALGLHDYC
DIIKHPMDMS TIKSKLEARE YRDAQEFGAD VRLMFSNCYK YNPPDHEVVA MARKLQDVFE MRFAKMPDE

Purity

> 95% by SDS-PAGE and HPLC analysis.

Endotoxin Level

< 1 EU/ µg, determined by LAL method.

Formulation

**Sterile liquid solution contains 25 mM
HEPES, pH 7.5, 150 mM NaCl, 5% glycerol,
0.5 mM TCEP. Frozen solution.****HUNK1, MCAP - Additional Information****Target Background**

Bromodomain (BRD) is an extensive family of protein domains, originally identified in and named after the *Drosophila* protein Brahma. Members of BRD family share a conserved atypical left-handed four helix bundle structure, and specifically bind to ε-lysine acetylated proteins. It is well known that histone acetylation and methylation play a central role in epigenetics and are important for various gene transcription events, thus the acetyl-lysine binding property of BRDs make them suitable drug targets for epigenetics. Currently, there are 46 diverse human proteins containing 61 BRDs. These include histone acetyltransferases, ATP-dependent chromatin-remodeling complex proteins, and nuclear scaffold proteins. The main functions of BRDs in vivo include chromatin acetylation and deacetylation, nucleosome assembly and remodeling, and organizations of chromosome or chromatin domains. Recombinant **human BRD4 (49-460)** with His tag produced in *E.coli* is a single, non-glycosylated polypeptide chain containing 419 amino acids. A fully biologically active molecule, BRD4 (49-460) has a molecular mass of 47.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at .

HUNK1, MCAP - Protein Information

HUNK1, MCAP - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HUNK1, MCAP - Images