Recombinant mouse WIF-1 protein

Catalog Number: ATGP3217

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
29-379aa

UniProt No.
Q9WUA1

NCBI Accession No.
NP_036045

Alternative Names
Wif-1, WIF-1, AW107799

PRODUCT SPECIFICATION

Molecular Weight
39.4 kDa (359aa)

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM MES buffer (pH 5.5) containing 1mM DTT, 1mM PMSF, 30% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
WIF1, also known as wnt inhibitory factor 1, is a secreted protein that binds to Wnt proteins and inhibits their activities. This protein signaling plays a pivotal role in skeletal development and in the control of cartilage and bone turnover. Also, WIF1 is present in fish, amphibia and mammals, and is expressed during Xenopus and zebrafish development in a complex pattern that includes paraxial presomitic mesoderm, notochord, branchial

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arches and neural crest derivatives. Recombinant mouse WIF1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

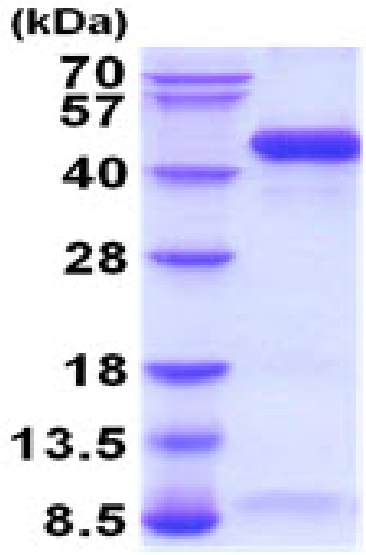
GQPPEESLYL WIDAHQARVL IGFEEDILIV SEGKMAPFTH DFRKAQQRMP AIPVNIHSMN FTWQAAGQAE YFYEFLSLRS LDKGIMADPT VNVPLLGTVP HKASVVQVGF PCLGKQDGVA AFEVNVIVMN SEGNTILRTP QNAIFFKTCQ QAECPGGCRN GGFCNERRVC ECPDGFYGPH CEKALCIPRC MNGGLCVTPG FCICPPGFYG VNCDKANCST TCFNGGTCFY PGKCICPPGL EGEQCELSKC PQPCRNGGKC IGKSKCKCPK GYQGDLCSKP VCEPGCGAHG TCHEPNKCQC REGWHGRHCN KRYGASLMHA PRPAGAGLER HTPSLKKAED RRDPPESNYI WVEHHHHHH

General References

Park JH., et al. (2014) Dev. Biol. 386(1):227-236.
Stock M., et al. (2013) Arthritis Rheum. 65(9):2310-2322.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.