Active Recombinant Drosophila dpp

Cat. No. dpp-843D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Drosophila dpp (Accession # NP_722813) Asp457-Arg588, fused with an N-terminal Met, was produced in E. coli.
Species	Drosophila
Source	E.coli
ProteinLength	Asp457-Arg588
Predicted N Terminal	Met
Form	Lyophilized from a 0.2 μm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
Bio-activity	Measured by its ability to induce Mad phosphorylation in S2 Drosophila cells transfected with Mad. Approximately 3 μg/mL of recombinant Drosophila DPP and higher can effectively induce Mad phosphorylation.Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. Nakamura, K. et al. (1999) Exp. Cell Res. 250:351.The ED50 for this effect is typically 0.5 - 2 μg/mL.
Molecular Mass	Recombinant Drosophila dpp, Met-tagged has a calculated MW of 14.8 kDa (monomer).
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4ºC); After reconstitution under sterile conditions for 3 months (-70ºC).

GENE INFORMATION

Gene Name	dpp decapentaplegic [Drosophila melanogaster (fruit fly)]
Official Symbol	dpp
Synonyms	blk; BMP; CG9885; Dm-DPP; Dmel\CG9885; Dpp; DPP; DPP-C; Hin-d; ho; l(2)10638; l(2)22Fa; l(2)k17036; M(2)23AB; M(2)LS1; shv; Tg; TGF-b; TGF-beta; TGFbeta; CG9885 gene product from transcript CG9885-RA; CG9885-PA; CG9885-PB; CG9885-PC; CG9885-PE; Decapentaplegic/Bone morphogenetic protein; Haplo-insufficientblink; bone morphogenetic protein; bone morphogenic protein; decapentaplegic; dpp-PA; dpp-PB; dpp-PC; dpp-PE; heldout; shortvein; tegula
Gene ID	33432
mRNA Refseq	NM_057963.5
Protein Refseq	NP_477311.1
MIM	
UniProt ID	P07713
Chromosome Location	22F1-22F3; 2-4.0 cM

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