

Recombinant Mouse GDF-3 Protein, Active

Cat. No. GDF3-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mature protein (Ala253-Gly366, 114 aa). Expressed in CHO cells. Lyophilized from a 0.2 um filtered solution in HCl. Active protein - induces Smad2 phosphorylation in P19 cells.
Species	Mouse
Source	CHO cells
ProteinLength	Ala253-Gly366 (mature protein, 114 aa)
Description	GDF-3 (previously called Vgr-2) is a TGF-beta superfamily member belonging to the growth/differentiation factor family. GDF-3 is expressed in undifferentiated embryonic stem (ES) cells, white adipose tissue and the brain. The 366 amino acid mouse GDF-3 contains a 22 aa signal sequence, a 230 aa propeptide and a 114 aa mature protein. Mature mouse GDF-3 shares 90% and 83% aa sequence identity with rat and human GDF-3, respectively.
Form	Lyophilized
Bio-activity	Measured by its ability to induce Smad2 phosphorylation in P19 mouse embryonal carcinoma cells. 50-100 ng/mL of Recombinant Mouse GDF-3 can effectively induce Smad2 phosphorylation.
Molecular Mass	13 kDa (predicted); 14-23 kDa, reducing conditions (SDS-PAGE); 16-18 kDa, non-reducing conditions

 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

Endotoxin	<0.10 EU/ug (LAL method)
Purity	>90% by SDS-PAGE (Silver Staining and Coomassie Blue Staining)
Storage	-20 to -70 C as supplied; 2 to 8 C for 1 month after reconstitution; -20 to -70 C for 3 months after reconstitution
Reconstitution	Reconstitute at 100 ug/mL in 4 mM HCl
Reference	Mazerbourg, S. et al. (2004) Mol. Endocrinol. 18:653
Storage Buffer	Lyophilized from a 0.2 um filtered solution in HCl
GENE INFORMATION	
Gene Name	Gdf3
Official Symbol	Gdf3
Synonyms	Gdf-3; Vgr-2; Vgr2; ecat9
Gene ID	14562
mRNA Refseq	NM_008108.5
Protein Refseq	NP_032134.2
UniProt ID	Q07104

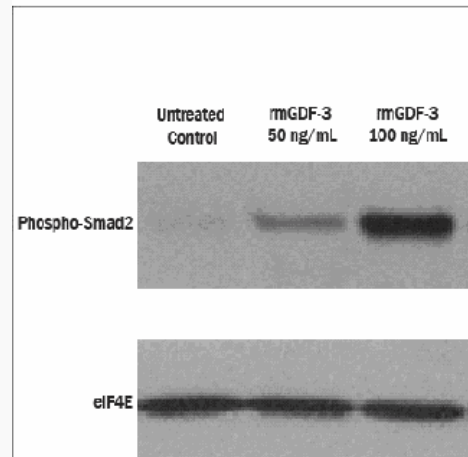
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Bioactivity

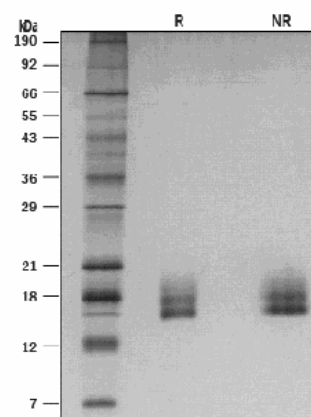
Bioactivity



Recombinant Mouse GDF-3 Induces Smad2 phosphorylation in P19 mouse embryonal carcinoma cells. P19 cells were incubated with 50 and 100 ng/ml of Recombinant Mouse GDF-3 for 60 minutes. The cells were lysed and Western blots were performed with anti-phospho Smad2 and eIF4E which was served as a loading control.

SDS-PAGE

SDS-PAGE



1 ug/lane of Recombinant Mouse GDF-3 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing R bands at 16 and 17 kDa and NR bands at 16 and 18 kDa.

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