42980 Recombinant Mouse Growth Differentiation Factor 15 (hGDF15)

Source: Expressed in *E.coli* **Tag:** N-terminal 6xHis

Size: 100μg

Purity: >95%, determined by SDS-PAGE **Endotoxin Level:** <0.2EU/µg, determined by LAL Test

Other Names: MIC-1, PDF, NAG-1

Introduction to the Molecule

GDF-15 belongs to the transforming growth factor β superfamily. It is synthesized as a 62-kDa precursor protein, which, after cleavage by furin-like protease, is secreted as 25-kDa disulfide-linked dimmer. GDF15 is an important regulator of appetite and energy homeostasis. It exerts its effects via its receptor called glial-derived neurotrophic factor (GDNF) receptor alpha-like (GFRAL).

Amino Acid Sequence

MRGSHHHHHHGMASMTGGQQMGRDLY
DDDDKDRWGSENLYFQGSAHAHPRDSCP
LGPGRCCHLETVQATLEDLGWSDWVLSPRQL
QLSMCVGECPHLYRSANTHAQIKARLHGLQP
DKVPAPCCVPSSYTPVVLMHRTDSGVSLQTYD
DLVARGCHCA

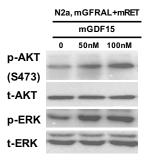
Note: 6xhis tag, EK cleavage site and TEV site are highlighted

Formulation, Reconstitution and Storage

- Lyophilized at 1 mg/mL in Tris 50mM glycerol 20% (v/v), pH 8.0.
- Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.
- Store lyophilized protein at -20°C.
 Aliquot reconstituted protein and store at -80°C. Avoid repeated freezing /thawing cycles.

Bioactivity Test

Recombinant mGDF15 is able to activate AKT phosphorylation in N2a cells stably expressing GFRAL and RET, which are receptor and co-receptor of GDF15.



SDS-PAGE Gel

