

Recombinant Rat Platelet-derived Growth Factor-AA

(Rat PDGF-AA)

Product Information

Product Name	Cat#	Size
Recombinant Rat Platelet-derived Growth Factor-AA (Rat PDGF-AA)	91604ES10	10 µg
	91604ES60	100 µg
	91604ES76	500 µg

Product Description

PDGF has three subforms: PDGF-AA, PDGF-BB, PDGF-AB. It is involved in a number of biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. The A-chain homodimers of the platelet-derived growth factor (PDGF AA) are widely expressed in normal and transformed cells. The mitogenic properties of PDGF AA are well established. FGF-2 and platelet-derived growth factor-A (PDGF-AA) are potent modulators of oligodendrocytes, the main responsible cells for myelin regeneration. PDGF has been suggested to have a significant role in wound healing.

Product Properties

Synonyms	PDGF1, PDGF-A, PDGFAA, PDGF-AA
Accession	P28576
GeneID	25266
Source	E.coli-derived rat PDGF-AA, Ser87-Arg196, with an N-terminal Met.
Molecular Weight	Approximately 25.3 kDa.
AA Sequence	MSIEEAIPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKQCPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSNLN PDHREEETDV R
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>98% by SDS-PAGE analyses.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 5.0 ng/mL, corresponding to a specific activity of > 2.0 × 10 ⁵ IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in 4mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!