

Vanin-1 Protein, Human (HEK293, His)

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| Cat. No.: | HY-P70502 |
| Synonyms: | Pantetheinase; Pantetheine Hydrolase; Tiff66; Vascular Non-Inflammatory Molecule 1; Vanin-1; VNN1 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | O95497 (Q22-S490) |
| Gene ID: | 8876 |
| Molecular Weight: | Approximately 77.6 kDa |

PROPERTIES

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| AA Sequence | <pre> QDTFTAAYVE HAAILPNATL TPVSR EEALA LMNRNLDILE GAITSAADQG AHIIVTPEDA IYGNFNRDS LYPYLEDIPD PEVNWIPCNN RNRFGQTPVQ ERLSCLAKNN SIYVVANIGD KKPCDTS DPQ CPPDGRYQYN TDVVFDSQ GK LVARYHKQNL FMGENQFNVP KEPEIVTFNT TFGSFGIFTC FDLFHDP AV TLVKDFHVD T IVFPTAWMNV LPHLSAVEFH SAWAMGMRVN FLASN IHYPS KKMTGSGIYA PNSSRAFH YD MKTEEGKLL L SQLDSHP SHS AVVNWTSYAS SIEALSSGNK EFKGTVFFDE FTFVKLTGVA GNYTVCQKDL CCHLSYKMSE NIPNEVYALG AFDGLHTVEG RYYLQICTLL KCKTTNLNTC GDSAETASTR FEMFSLSGTF GTQYVFPEVL LSENQLAPGE FQVSTDGRLF SLKPTSGPVL TVTLFGRLYE KDWASNASS </pre> |
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

Vanin-1 is an amidohydrolase with a specific enzymatic function, targeting one of the carboamide linkages in D-pantetheine. This activity is instrumental in the recycling of pantothenic acid (vitamin B5) and the concomitant release of cysteamine. Vanin-1's role in the enzymatic breakdown of D-pantetheine underscores its significance in the metabolic processes associated with vitamin B5 recycling and cysteamine liberation.

Caution: Product has not been fully validated for medical applications. For research use only.

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