



Product Datasheet

| | |
|---------------------|---|
| Product Name | Adenylate Kinase-3 Like 1 Human Recombinant |
| Cata No | CB501434 |
| Source | <i>Escherichia Coli.</i> |
| Synonyms | AK3, Adenylate kinase 3 alpha like 1, AK3L1, AK4. |

Description

AK3L1 is a affiliate of the adenylate kinase family of enzymes. AK3L1 enzyme is restricted to the mitochondrial matrix. Adenylate kinases-3 regulates the adenine and guanine nucleotide compositions within a cell by means of catalyzing the reversible transfer of phosphate group among these nucleotides. 5 different isozymes of adenylate kinase have been identified in vertebrates. The enzyme expression of various adenylate kinase isozymes is growth regulated and tissue-specific. AK3L1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 259 amino acids (1-223) and having a molecular mass of 29.3 kDa. The AK3L1 is fused with 35 amino acid His-tag at N-terminus. AK3L1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

AK3L1 solution containing 20mM Tris pH-8, 2mM DTT and 20% glycerol.

Stability

AK3L1 Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.

Please prevent freeze thaw cycles.

Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD
KDRWGSMASK LLRAVILGPP GSGKGTVSQR
IAQNFGLQHL SSGHFLRENIKASTEVGEMA
KQYIEKSLLV PDHVITRLMM SELENRRGQH
WLLDGFPRTL GQAEALDKIC EVDLVISLNI
PFETLKDRLS RRWIHPPSGR VYNLDFNPPH
VHGIDDVTGE PLVQQEDDKP EAVAARLRQY
KDVAKPIEL YKSRGVLHQF SGTETNKIWP
YVYTLFSNKI TPIQSKEAY