# Ephrin-A3/EFNA3 Protein, Mouse (HEK293, His)

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| **Cat. No.:** | HY-P73009 |
| **Synonyms:** | Ephrin-A3; EFL-2; EHK1-L; LERK-3; EFNA3; EFL2; EPLG3 |
| **Species:** | Mouse |
| **Source:** | HEK293 |
| **Accession:** | O08545 (Q23-S205) |
| **Gene ID:** | 13638 |
| **Molecular Weight:** | Approximately 38 kDa |

## PROPERTIES

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| **AA Sequence** | Q G P G G A L G N R H A V Y W N S S N Q H L R R E G Y T V Q V N V N D Y L D I Y<br>C P H Y N S S G P G G G A E Q Y V L Y M V N L S G Y R T C N A S Q G S K R W E C<br>N R Q H A S H S P I K F S E K F Q R Y S A F S L G Y E F H A G Q E Y Y Y I S T P<br>T H N L H W K C L R M K V F V C C A S T S H S G E K P V P T L P Q F T M G P N V<br>K I N V L E D F E G E N P Q V P K L E K S I S |
| **Biological Activity** | Measured by its ability to inhibit proliferation of PC-3 human prostate cancer cells. The $ED_{50}$ for this effect is 17.91 ng/mL, corresponding to a specific activity is $5.58\times10^4$ units/mg. |
| **Appearance** | Lyophilized powder |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **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

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| **Background** | Ephrin-A3/EFNA3 Protein is a cell surface GPI-bound ligand that plays a critical role in neuronal, vascular, and epithelial development by interacting with Eph receptors, a family of receptor tyrosine kinases involved in migration, repulsion, and adhesion. It binds promiscuously to Eph receptors on adjacent cells, initiating contact-dependent bidirectional signaling. The receptor's downstream signaling is known as forward signaling, while the ephrin ligand's downstream signaling is referred to as reverse signaling. Ephrin-A3/EFNA3 also interacts with EPHA8 and activates this receptor, further contributing |

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| | to its regulatory functions. |

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

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