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## Product Data Sheet

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Product Name: matrix protein (3-15) [Zaire ebolavirus]  
 Cat. No.: GP10052

**Chemical Properties**

Cas. No.

SMILES NC(CCCNC(N)=N)C(NC(C(C)C)C(NC(C(C)CC)C(NC(CC(C)C)C(N(CCC1)C1C(NC(C(C)O)C(NC(C)C(N2CCCC2C(N3CCCC3C(NC(C(NC(CC4=

Formula C<sub>69</sub>H<sub>110</sub>N<sub>16</sub>O<sub>20</sub>S

M.Wt

Solubility ≥ 151.6mg/mL in DMSO

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

Matrix protein (3-15) is a peptide of the structure proteins linking the viral envelope with the Zaire ebolavirus core.

Ebola virus (EBOV) is a member of the family *Filoviridae* in the order *Mononegavirales*. It is the causative agent of severe hemorrhagic fevers in human and non-human primates with high case fatality rates.

A role for matrix proteins in the regulation of viral genome replication and transcription has been shown for a number of negative strand RNA viruses. The recent study has shown that both matrix proteins of EBOV, VP40 and VP24, are able to inhibit both viral genome replication and transcription.

References:

1. Hoenen T, Jung S, Herwig A, Groseth A, Becker S (2010) Both matrix proteins of Ebola virus contribute to the regulation of viral genome replication and transcription. *Virology* 403: 56-66.
2. Dessen A, Viktor V, Dolnik O, Klenk H, Weissenhorn W. Crystal structure of the matrix protein VP 40 from Ebola virus. *The EMBO Journal* (2010) 19, 4228-4236.

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

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