1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{16}\text{H}_{16}\text{F}_{2}\text{N}_{2}\text{O}_{4}\text{S}_{2}$
- **Batch Molecular Weight:** 402.44
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 25 mM
- **Storage:** Store at RT

![Batch Molecular Structure]

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.28$ (Ethyl acetate)
- **HPLC:** Shows >99% purity
- **$^1H$ NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Carbon: Theoretical 47.75, Found 47.71
  - Hydrogen: Theoretical 4.01, Found 3.98
  - Nitrogen: Theoretical 6.96, Found 6.78
Product Name: PEPA
Catalog No.: 2929 Batch No.: 1

CAS Number: 141286-78-4
IUPAC Name: 2-[2,6-Difluoro-4-[[2-[(phenylsulfonyl)amino]ethyl]thio]phenoxy]acetamide

Description:
Novel allosteric potentiator of AMPA receptor desensitization. Slows the rate of onset of desensitization and potentiates steady-state equilibrium currents induced by glutamate with subunit (GluA3/4 > GluA1) and splice variant (flop > flip) selectivity. Ameliorates post-ischemic memory impairment in rats following i.v. administration.

Physical and Chemical Properties:
Batch Molecular Formula: C_{16}H_{16}F_{2}N_{2}O_{5}S_{2}
Batch Molecular Weight: 402.44
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 25 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: