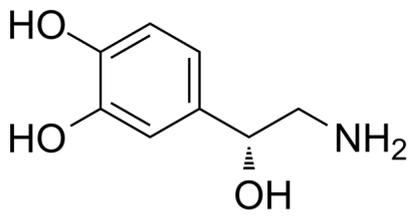


## Certificate of Analysis

Catalog Number	BP12711
Product Name	Norepinephrine

### Physical and Chemical Properties

Synonyms	Levophed, Levonoradrenaline, Nor-Epirenan, Arterenol, Aktamin, Levonor
CAS No.	51-41-2
Chemical Formula	C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub>
Molecular Weight	169.18
Solubility	DMSO: 10mM, ultrasonic and warming and heat to 45°C
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

### Product Information

Description	Norepinephrine can stimulate apoptosis in adult rat ventricular myocytes by activation of the $\beta$ -adrenergic pathway. It can up-regulate the expression of vascular endothelial growth factor, matrix metalloproteinase (MMP)-2, and MMP-9 in nasopharyngeal carcinoma tumour cells.
Targets&IC50	$\beta$ 1 adrenoceptor:740 nM(Ki), $\alpha$ 2A adrenoceptor:56 nM(Ki), $\alpha$ 1 adrenoceptor:330 nM(Ki)

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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