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### CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Diltiazem EP Impurity D**

#### Identification:

Chemical Name: (2S,3S)-5-[2-(Methylamino)ethyl]-2-(4-methoxyphenyl)-4-oxo-2,3,4,5-tetrahydro-1,5-benzothiazepin-3-yl acetate

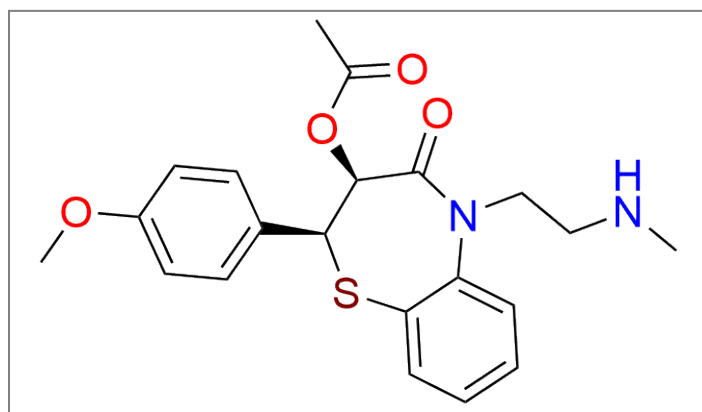
Synonyms : N-Desmethyl Diltiazem  
Hydrochloride

CAS Number : 86408-45-9

CAT Number : CP-D22004

Molecular Formula : C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>S

Molecular Weight : 400.49



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.