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**Certificate of Analysis**

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Product Name: Ivacaftor benzenesulfonate  
Cat. No.: GC12489  
Batch No.: 1  
Chemical Name: (Z)-N-(2,4-di-tert-butyl-5-hydroxyphenyl)-4-oxo-1,4-dihydroquinoline-3-carbimidic acid compound with benzenesulfonic acid (1:1)

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 1134822-09-5  
Molecular Formula:  $C_{30}H_{34}N_2O_6S$   
Molecular Weight: 550.67  
Storage: Store at  $-20^{\circ}C$   
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

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

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