Supplementary information

Synthesis and antitumor activity of triazole-containing sorafenib analogs

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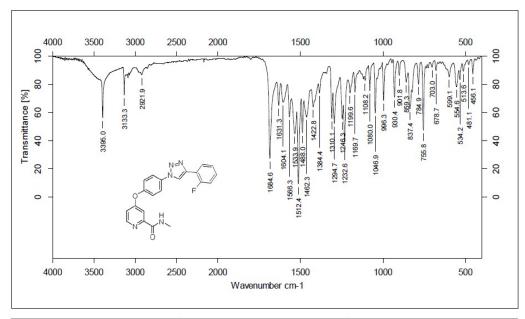
Table S1. Enzymatic screening of selected compounds.

| Commound | % inhibition at 10 μM ^a | | | | | | | | | |
|----------|------------------------------------|--------|-------|-------|------|------|------|-------|------|------|
| Compound | VEGFR-3 | PDGFRα | FGFR1 | c-KIT | CDK4 | RET | TNIK | B-Raf | CDK2 | CHK1 |
| 8e | 1.2 | 3.4 | 15 | 7.3 | -2.6 | 28.9 | 18.6 | 5.6 | 17 | 21 |
| 8f | 3.5 | -5.2 | 1.8 | -2.6 | -2.3 | 17.2 | 15.1 | 5.6 | 8.4 | 10 |
| 8j | 4.3 | 0.6 | -0.61 | 11 | 0.7 | 18.0 | 13.1 | 5.6 | 13 | 17 |
| 8n | 15 | -0.5 | 8.0 | 9.5 | 2.3 | 11.0 | 26.6 | 13.8 | 8.9 | 10 |

^a The biological data are generated from at least two independent experiments.

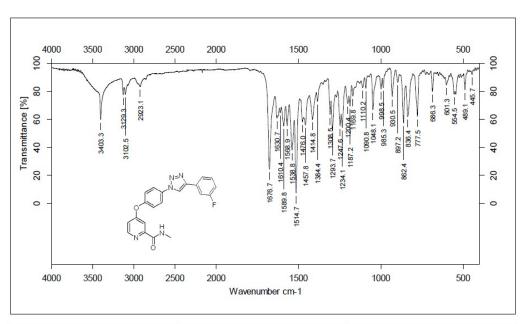
Copies of IR spectra for triazoles

8e

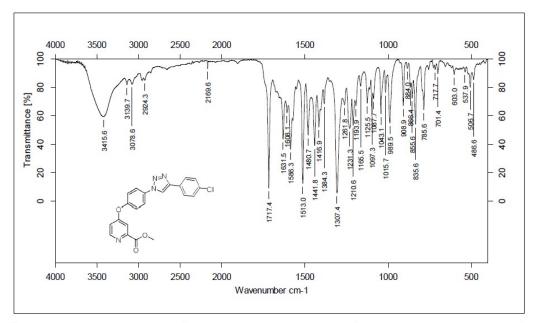


| Sample : KPR-6 | Frequency Range: | 3999.64 - 400.157 | Measured | asured on : 2017-10-11 | | |
|-------------------------|------------------|-----------------------|-------------|------------------------|--|--|
| Technique : Sample form | Resolution: 2 | Instrument: EQUINOX55 | | Sample Scans : 16 | | |
| Customer : Default | Zerofilling: 2 | Acquisition : Double | Sided, Forv | | | |

8f

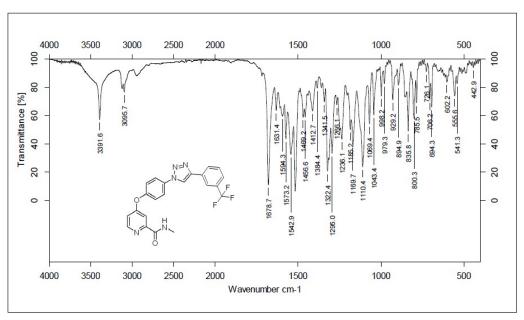


| Sample : KPR-2 | Frequency | Range: 3999.64 - 400.157 | Measured | leasured on : 2017-10-11 | |
|------------------------------------|---------------|--------------------------|-----------|--------------------------|--|
| Technique : Sample form | Resolution: 2 | Instrument: EQUIN | OX55 | Sample Scans : 16 | |
| Customer : Default Zerofilling : 2 | | Acquisition : Double | Sided.For | | |

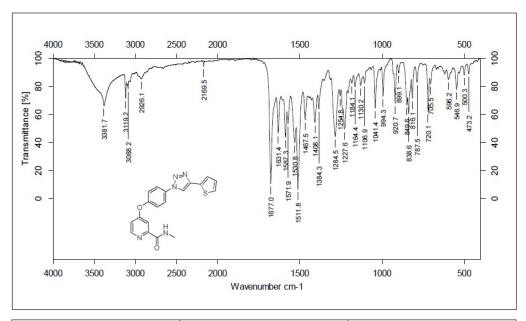


| Sample : KPR-28 | Frequency | Frequency Range : 3999.64 - 400.157 Me | | on : 2017-10-11 |
|-------------------------|----------------|--|-----------|-------------------|
| Technique : Sample form | Resolution: 2 | Instrument : EQUIN | OX55 | Sample Scans : 16 |
| Customer : Default | Zerofilling: 2 | Acquisition Double | Sided For | |

8j



| Sample: KPR-35 | | Frequency Range : 3999.64 - 400.157 | | Measured | on : 2017-10-11 |
|------------------------------------|--|-------------------------------------|-----------------------|-------------|-------------------|
| Technique : Sample form Resolution | | : 2 | Instrument: EQUINOX55 | | Sample Scans : 16 |
| Customer : Default Zerofilling : 2 | | : 2 | Acquisition : Double | Sided, Forv | |



| Sample : KPR-4 | | Frequency Range : 3999.64 - 400.157 | | Measured on : 2017-10-11 | | |
|------------------------------------|----------------|-------------------------------------|-----------------------|--------------------------|------------|-------------------|
| Technique : Sample form Resolution | | 2 | Instrument: EQUINOX55 | | X55 | Sample Scans : 16 |
| Customer : Default | Zerofilling: 2 | 2 | Acquisition : | Double | Sided,Forv | |

Copies of NMR spectra for triazoles

